



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Cross Aluminum Products Inc.
1770 Mayflower Road
Niles, MI 49120

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ). This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series FLT400 Aluminum Outswing Opaque Doors (Thermally Broken)-L.M.I.

APPROVAL DOCUMENT: Drawing No. 1863, titled "FLT-400 Thermal Aluminum Panel Impact Outswing Door", sheets 1 through 11 of 11, dated SEP 17, 2013, prepared by W. W. Schaefer Engineering,, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations:

1. See table in sheet 1 for Design Pressure Vs. unit Sizes.
2. See lock option 1 (3-point Von Duprin SVR Panic exit w/ KR9954 mullion) in sheet 2, the Maximum Design Pressure DP is limited to= ± 60 PSF and Single door is not applicable. See lock option 2 (Dead bolt (grade 1 w/ 1" throw) + Surface bolts in sheet 3. See lock option 3 (2-Point Sargent CVR panic) in sheet 4.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 13-0624.06 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



NOA No. 14-0428.02
Expiration Date: September 26, 2018
Approval Date: July 10, 2014
Page 1

2
7/11/14

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (submitted under file #13-0624.06).
2. Drawing No. 1863, titled "FLT-400 Thermal Aluminum Panel Impact Outswing Door", sheets 1 through 11 of 11, dated SEP 17, 2013, prepared by W. W. Schaefer Engineering, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS (submitted under file #13-0624.06)

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94(Not performed)
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of Alum. Outswing opaque/glazed Entrance Doors, prepared by Architectural Testing, Test Report No. C7190.01-602-18, dated 06/03/13, signed and sealed by Shawn G. Collins, P.E.

Note: Clarification letter of SVR panic engagement, dated AUG 28, 2013, issued by Architectural Testing, signed by John Bordagaray, Director, ATI.

C. CALCULATIONS (submitted under file #13-0624.06)

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by W. W. Schaefer Engineering, dated May 22, 2013 and last revised on AUG 06, 2013, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS(items 2 & 3 below, submitted under file #13-0624.06)

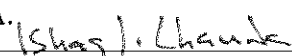
1. Notice of Acceptance No. 11-0926.07 issued to Dyplast Products, LLC, (Former Apache Product Co.) for "Expanded Polystyrene Insulation", expiring on 01/11/17.
2. Test report # 61261.01-106-18 dated 01/04/06, issued by Architectural Testing for Polyamide I-strut per ASTM D-2843 and ASTM D635, issued to Technoform Group.
3. Tensile test report # ETC-07-1043-2008.0 dated 09/18/07, issued by ETC Laboratories for Strut material, issued to Technoform Group.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014(5th Edition) and letter of no financial interest, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated April 14, 2014, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter, prepared by W. W. Schaefer Engineering & Consulting, P.A. dated April 10, 2014, of NOA Drawings and testing have been reviewed to 2014 FBC and found compliant and that No change to existing NOA documents are required, signed by Warren W. Schaefer, P.E.
3. Statement letter of conformance to FBC 2010 and letter of no financial interest, prepared by W. W. Schaefer Engineering, dated APR 24, 2013, signed and sealed by Warren W. Schaefer, P.E. (submitted under file #13-0624.06)
4. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA revises #13-0624.06, expiring SEP 26, 2018
2. Test proposals # 11-0662-R, dated 02/16/12 approved by PERA.


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 14-0428.02

Expiration Date: September 26, 2018

Approval Date: July 10, 2014

GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

LOCK OPTION REQUIREMENTS

PANEL TYPE	HARDWARE REQUIRED
DOOR WITH LOCK OPTION 1	
ACTIVE PANEL	3-POINT PANIC LOCK DEVICE (ITEM 31)
INACTIVE PANEL	3-POINT PANIC LOCK DEVICE (ITEM 31)
DOOR WITH LOCK OPTION 2	
ACTIVE PANEL	DEAD BOLT (ITEM 35)
	PASSAGE LOCK (ITEM 36)
	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
INACTIVE PANEL	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
	TOP & BOTTOM FLUSH BOLTS (ITEM 34)
DOOR WITH LOCK OPTION 3	
ACTIVE PANEL	2-POINT PANIC LOCK DEVICE (ITEM 37)
	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
INACTIVE PANEL	TOP & BOTTOM SURFACE BOLTS (ITEM 33)

NOTES:

1. SEE PARTS LIST ON SHEET 11 FOR DESCRIPTION OF LOCK ITEMS.
2. ALL MANUAL FLUSH &/OR SURFACE LOCK BOLTS SHALL BE ENGAGED UPON A BUILDING LOCK-DOWN &/OR IN THE EVENT OF A SEVERE STORM THREAT

ALLOWABLE DESIGN SIZE/PRESSURE TABLE

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
DOUBLE DOOR			
91 1/2	97 3/8	60.0	60.0
81 3/8	97 3/8	(1) 67.5	(1) 67.5
73 1/4	97 3/8	(1) 75.0	(1) 75.0
SINGLE DOOR			
47 5/8	97 3/8	60.0	60.0
42 3/8	97 3/8	(1) 67.5	(1) 67.5
38 1/8	97 3/8	(1) 75.0	(1) 75.0

(1) PRESSURES HIGHER THAN ± 60 PSF ARE ONLY APPLICABLE WHEN LOCK OPTION 2 &/OR 3 IS USED. WHEN LOCK OPTION 1 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED ± 60 PSF REGARDLESS OF DOOR SIZE.

HINGE NOTE

HINGES ARE NOT SHOWN IN THE ELEVATION VIEWS DUE TO THE CHOICE OF THEM BEING CONTINUOUS OR INDIVIDUAL BUTT HINGES. WHEN BUTT HINGES ARE USED, THERE SHALL BE A TOTAL OF 4 WITH EACH DOOR PANEL POSITIONED 7 5/8" FROM BOTH TOP & BOTTOM TO HINGE CENTERLINE & EQUALLY SPACE BETWEEN. SEE APPLICABLE SECTIONS & PARTS LIST FOR ALL HINGE DETAIL.

NOTE: THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC SECTION 1715.5.

FRAME CORNER CONSTRUCTION:

FRAME HEAD: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED WITH (3) NO. 10 X 1" PHTF THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBERS SCREW SPLINES. CORNERS ARE SEALED WITH SILICONE SEALANT.

SILL: VERTICAL MEMBERS RUN THROUGH WHILE THE THRESHOLD IS SQUARE CUT, BUTTED AND SEALED WITH SILICONE SEALANT.

FRAME ANCHOR REQUIREMENTS TABLE

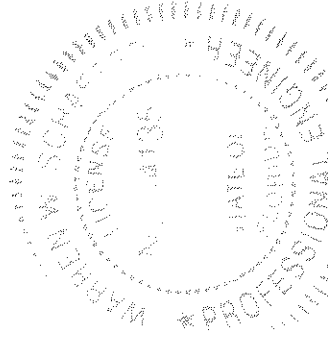
OPENING TYPE (SUBSTRATE)	FRAME & MULLION PLATE TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
PRIMARY FRAME SCREWS			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & $G=0.55$)	NO. 20 SMS OR WOOD SCREW	1 1/2"	1"
MIN. 16 GA. 50 KSI METAL STUD	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
MIN. 1/8" THK A36 STEEL	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
MIN. 0.100" THK 6063-T5 ALUM.	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
(4) MIN. C-90 CONCRETE FILLED BLOCK	(2) 5/16" CONCRETE SCREW	1 1/2"	2"
MIN. 2500 PSI CONCRETE	(2) 5/16" CONCRETE SCREW	1 3/4"	2"
SILL SCREWS (PRIMARY & SECONDARY) & SECONDARY FRAME SCREWS			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & $G=0.55$)	NO. 14 SMS OR WOOD SCREWS	1 1/2"	3/4" AT SIDES; 1" AT SILL
MIN. 16 GA. 50 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(4) MIN. C-90 CONCRETE FILLED BLOCK	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
MULLION END PLATE ANCHORS			
MIN. 2500 PSI CONCRETE	(5) EXPANSION ANCHOR WITH 5/16-18 X 1 3/4" MACHINE SCREW	FULL (1 5/8")	2 1/2"
(1) 1/4" CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).			
(2) 5/16" CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.)			
(3) 2X6 BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 4 1/4".			
(4) CONCRETE FILLED BLOCK SUBSTRATE IS NOT APPLICABLE AT HEAD AND SILL			
(5) EXPANSION ANCHORS SHALL BE POWERS SINGLE SHELL EXPANSION ANCHOR.			

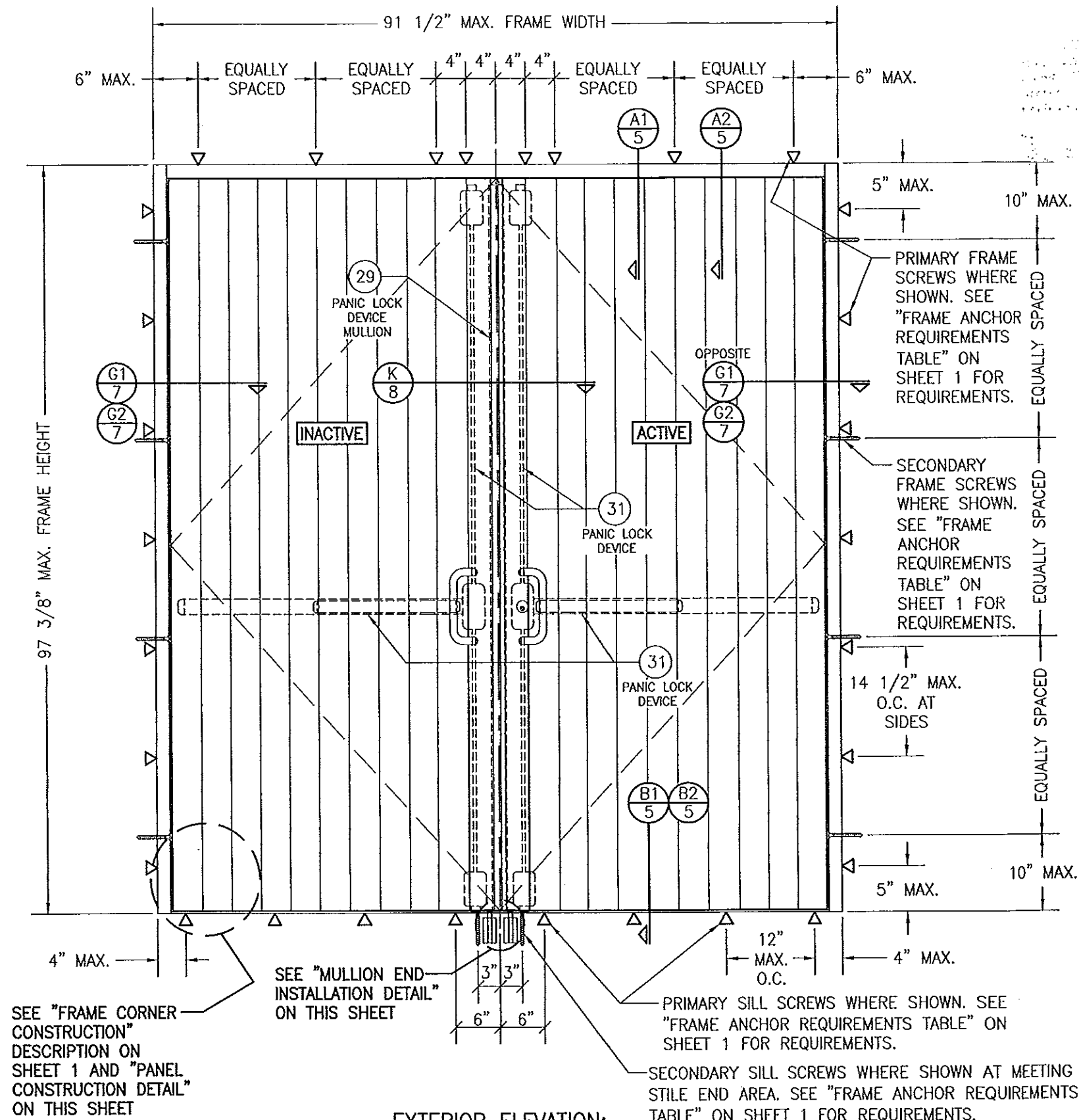
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/11/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE	FLT-400 THERMAL ALUMINUM PANEL IMPACT OUT-SWING DOOR
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
MANUFACTURER	CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667
CERTIFICATION	SEP 17 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1863
SHEET NO.	1 OF 11

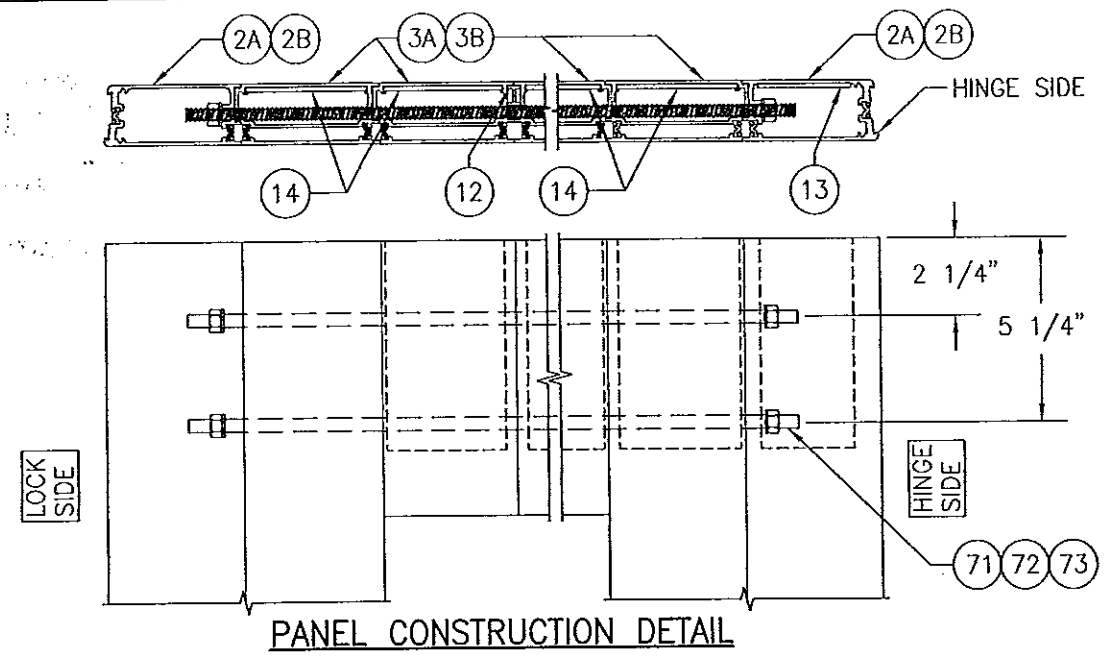
Approved as complying with the Florida Building Code
Date: SEP 26, 2013
NOAH 13-0624-06
Miami Dade Product Control
By: [Signature]

PRODUCT REVISED
as complying with the Florida Building Code
Building Code
Acceptance No. 14-0428-02
Expiration Date: SEP 26, 2018
By: [Signature]
Miami Dade Product Control

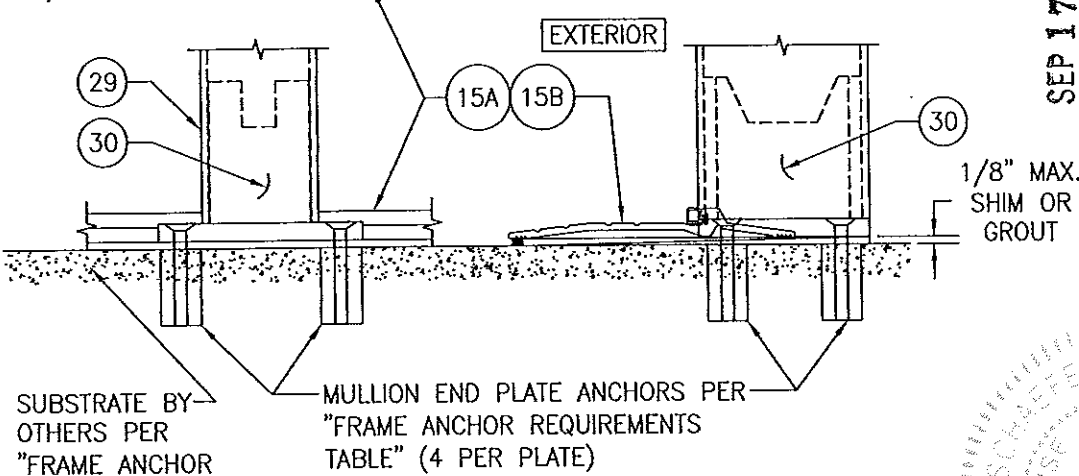
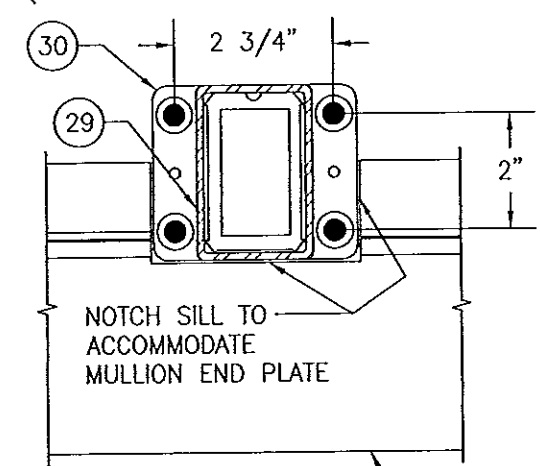




EXTERIOR ELEVATION:
DOUBLE DOOR WITH LOCK HARDWARE OPTION 1
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)
 NOTE: SINGLE DOOR IS NOTE APPLICABLE WITH LOCK OPTION 1



SCALE: N.T.S.
 (TOP OF PANEL SHOWN. BOTTOM OF PANEL IS CONSTRUCTED THE SAME)



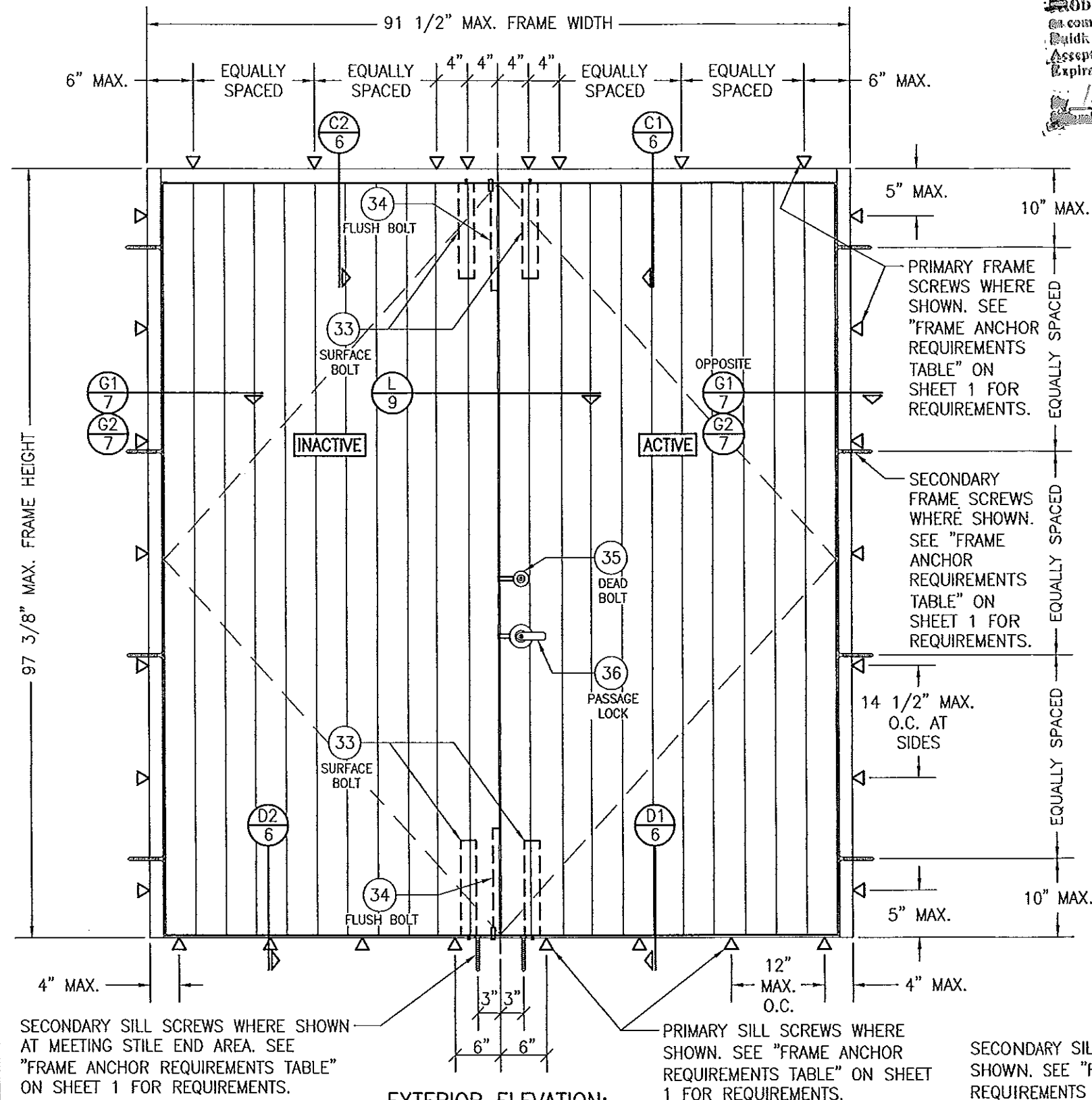
SCALE: N.T.S.
 (DOOR PANEL NOT SHOWN FOR CLARITY)
 (FOR SILL SCREWS NOT SHOWN. SEE SECTION B1/5)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-0428-02
 Expiration Date 9/26/18
 By: [Signature]
 [Stamp]

Approved as complying with the
 Florida Building Code
 Date 9/26/18
 NO. 13-0624-06
 Miami Dade Product Control
 By: [Signature]

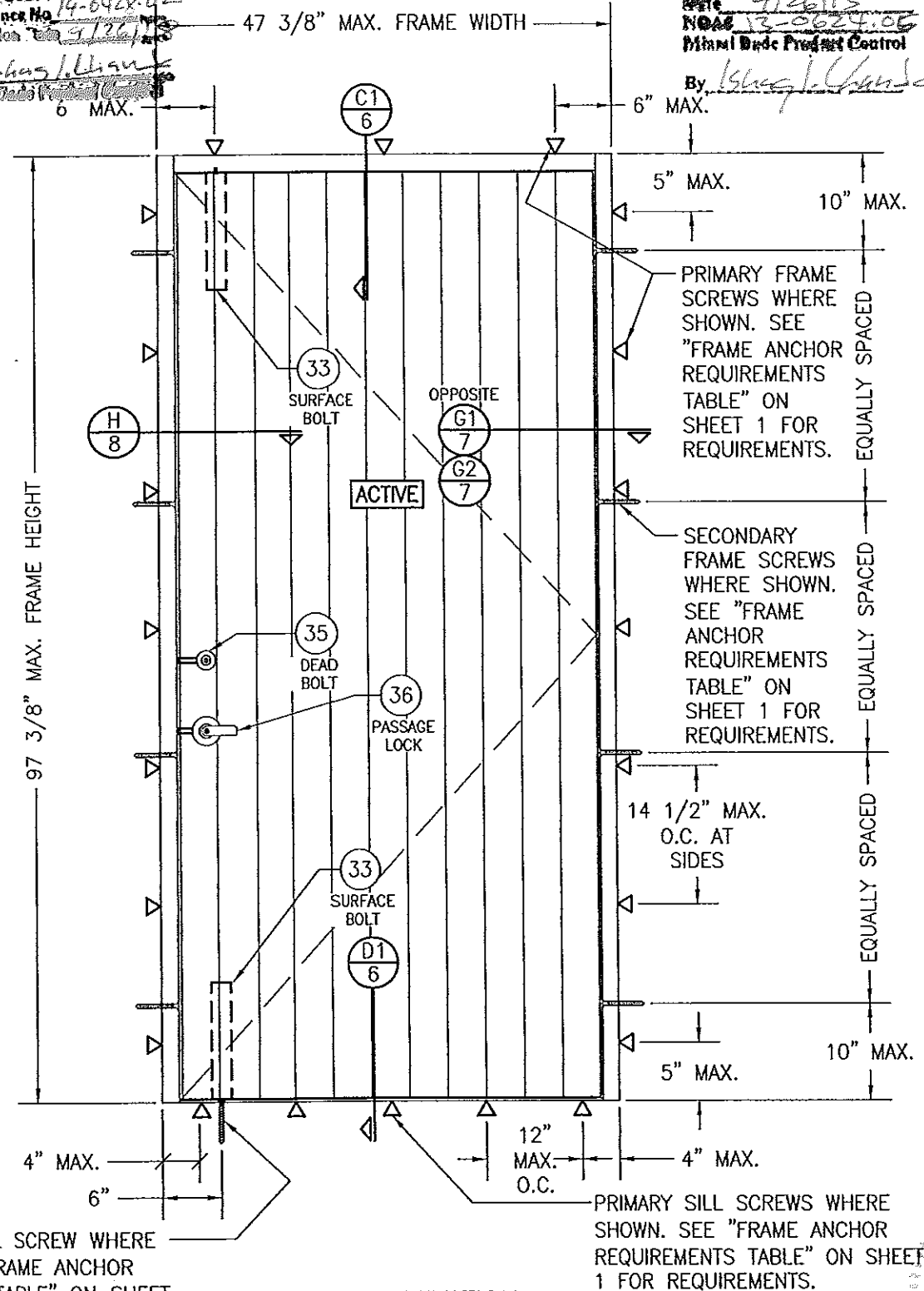
SEP 17 2013

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 04/11/13
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE FLT-400 THERMAL ALUMINUM PANEL IMPACT OUT-SWING DOOR	
MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION SEP 17 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1863	REV.
SHEET NO. 2 OF 11	



EXTERIOR ELEVATION:
DOUBLE DOOR WITH LOCK HARDWARE OPTION 2
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-6428-02
 Expiration 9/26/13
 By: [Signature]

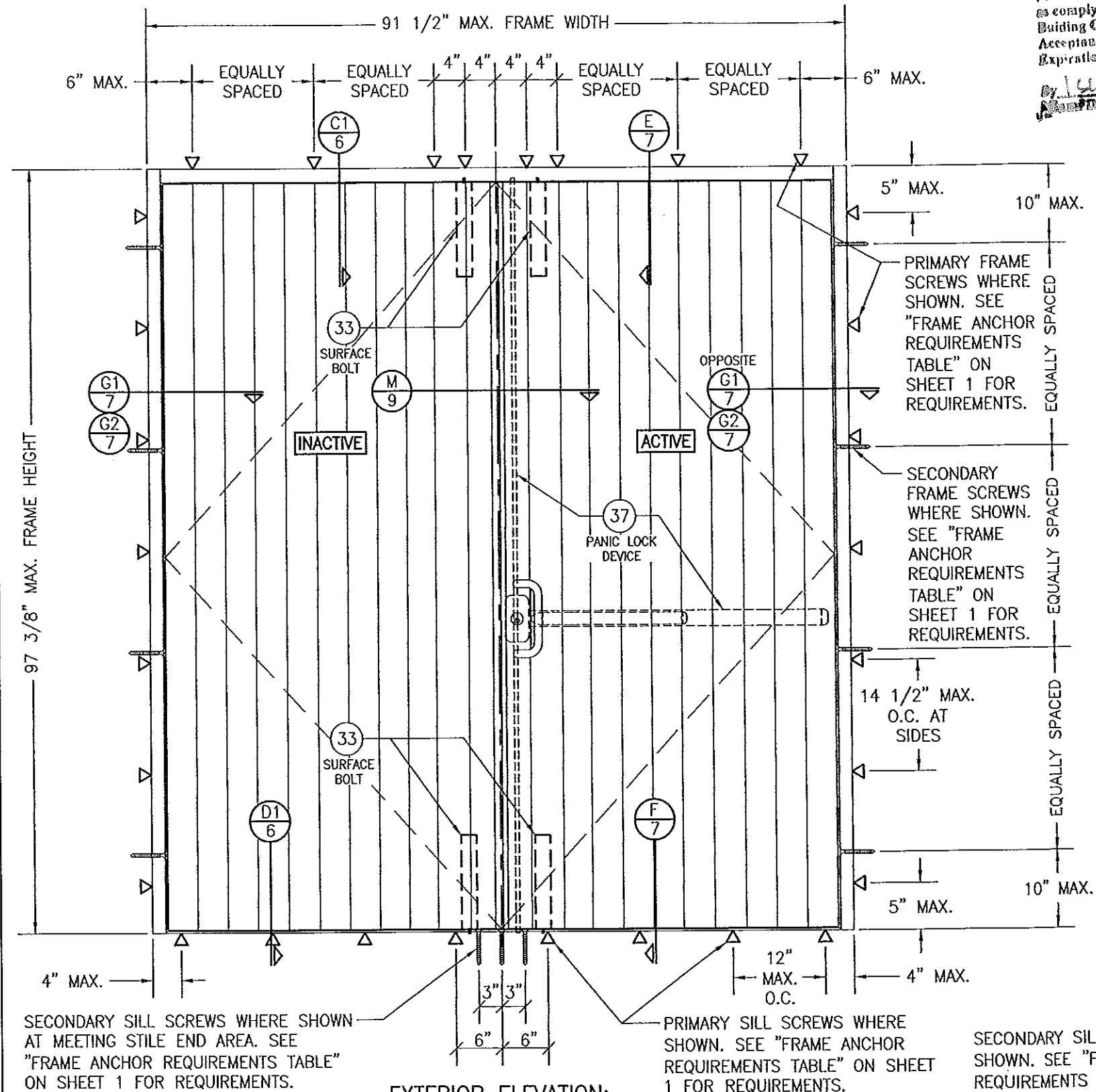


EXTERIOR ELEVATION:
SINGLE DOOR WITH LOCK HARDWARE OPTION 2
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

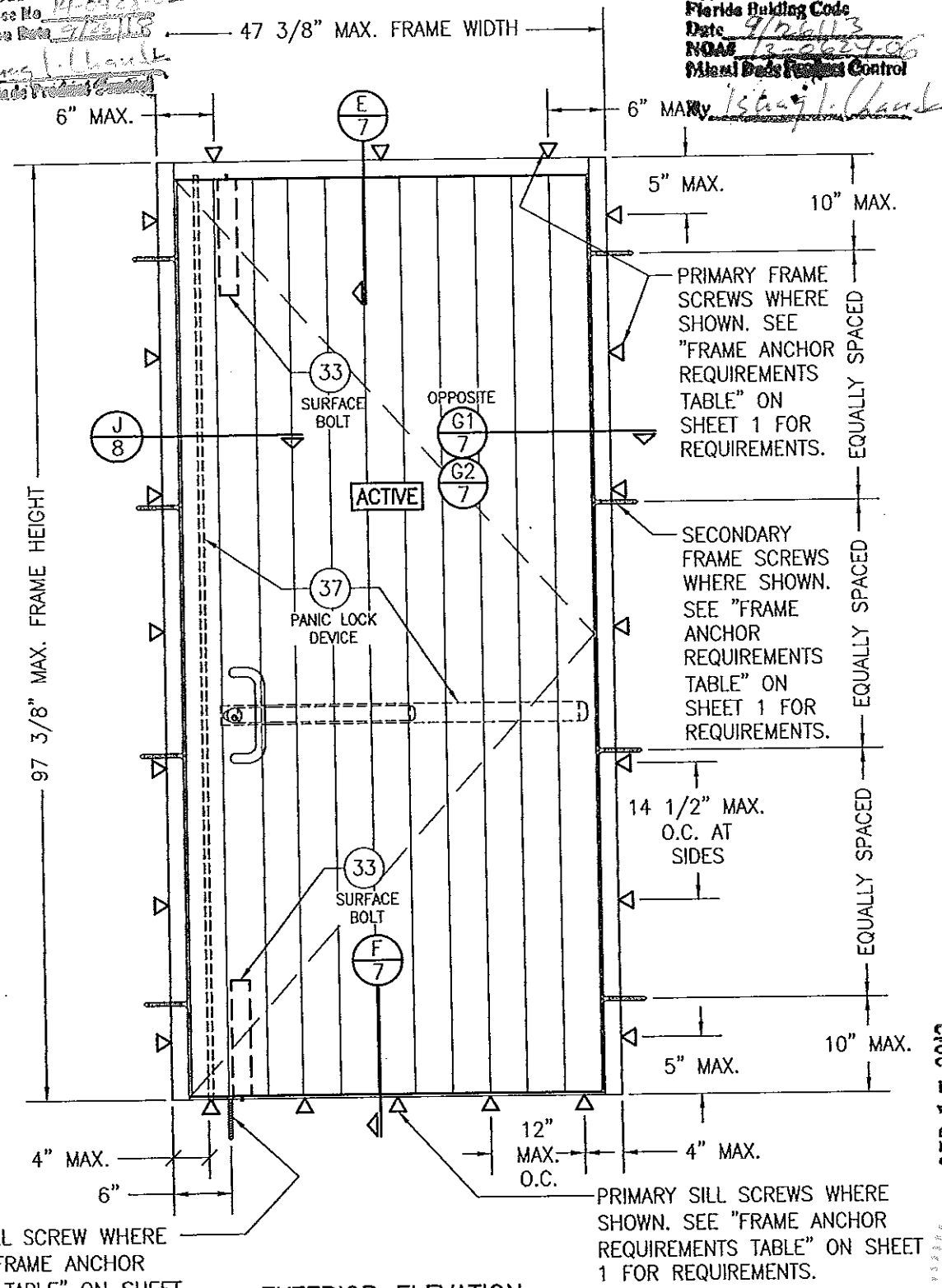
Approved as complying with the
 Florida Building Code
 Date 9/26/13
 NO. 13-0624-06
 Miami Dade Product Control
 By: [Signature]

SEP 17 2013

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/11/13	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE FLT-400 THERMAL ALUMINUM PANEL IMPACT OUT-SWING DOOR			
MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION SEP 17 2013 W. W. SCHAEFER, P.E. NO. 44155			
DRAWING NO. 1863		REV.	
SHEET NO. 3		OF 11	



EXTERIOR ELEVATION:
DOUBLE DOOR WITH LOCK HARDWARE OPTION 3
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

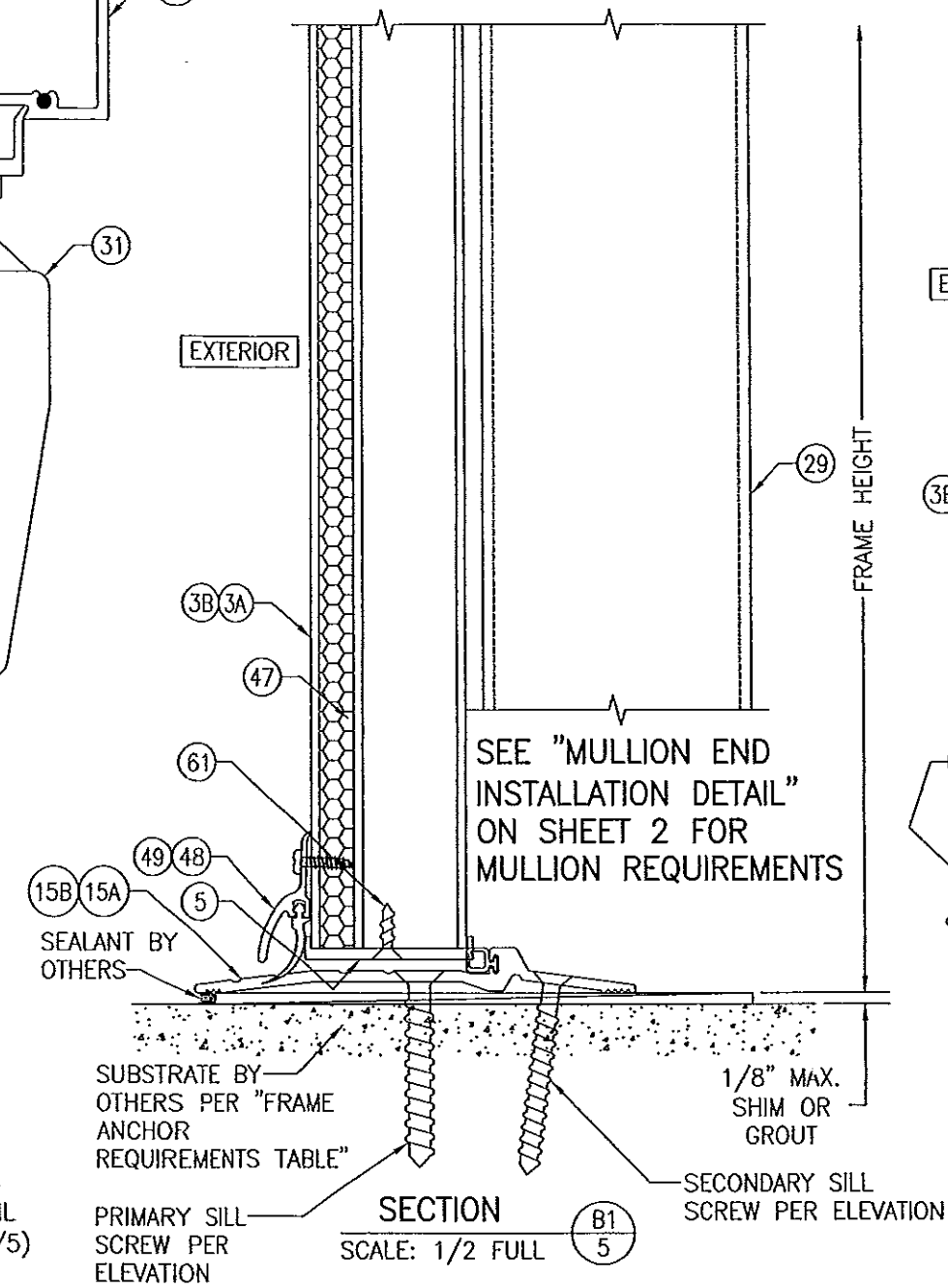
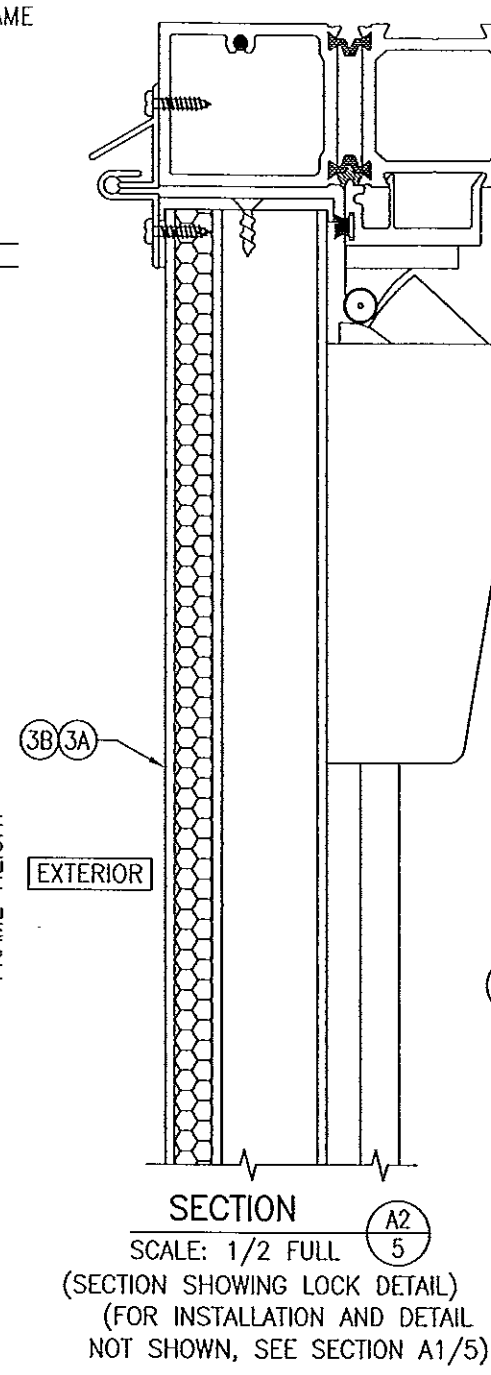
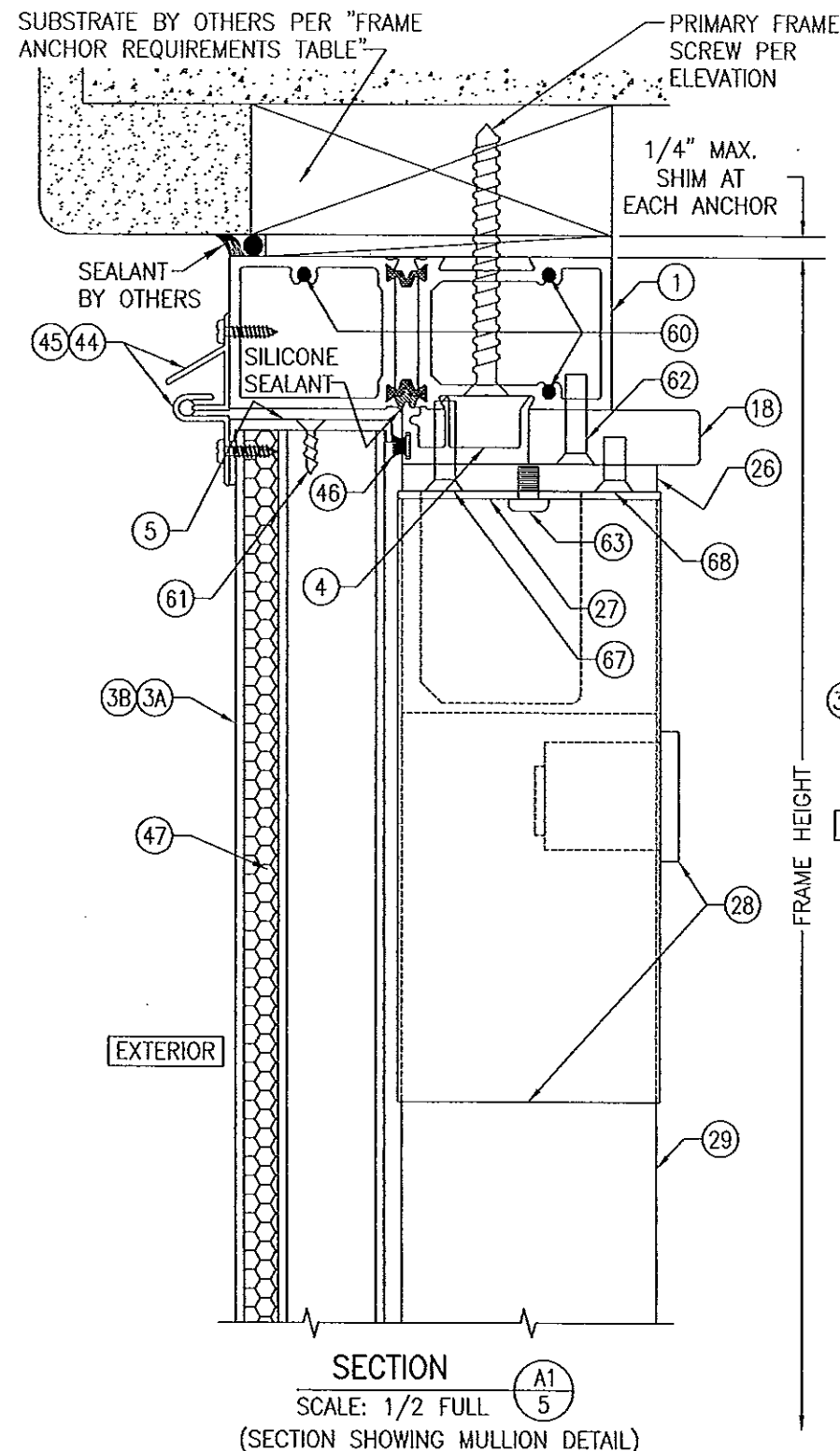


EXTERIOR ELEVATION:
SINGLE DOOR WITH LOCK HARDWARE OPTION 3
 SCALE: 3/4" = 1'-0"
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

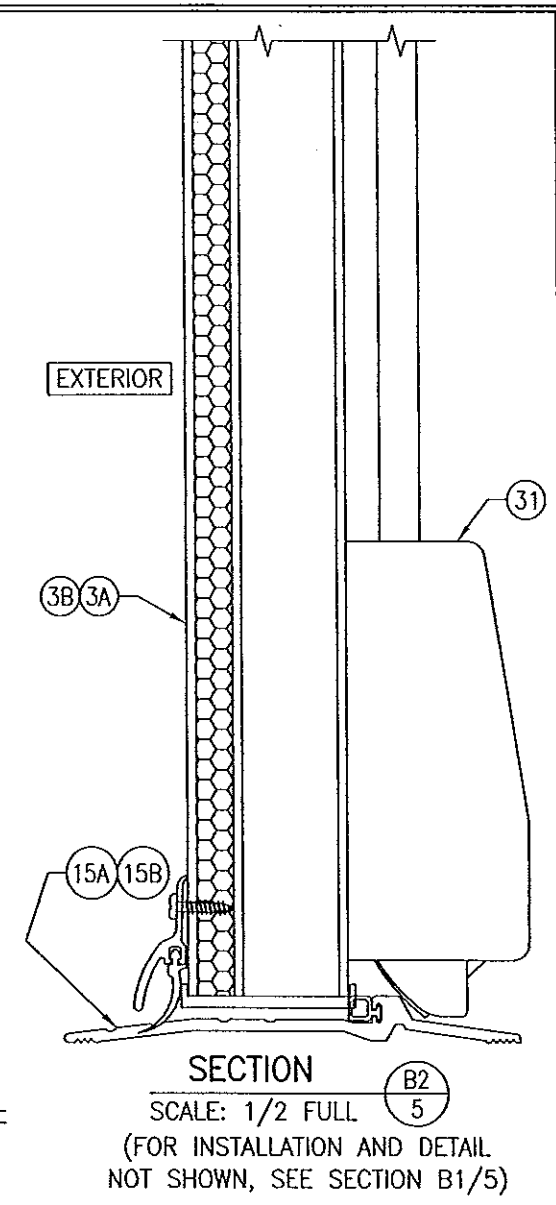
PRODUCT REVIEW
 as complying with Florida Building Code
 Acceptance No. 11-14129-02
 Expiration Date 3/26/15
 By: [Signature]
 Date: 9/12/13

Approved as complying with Florida Building Code
 Date 9/12/13
 NOA 13-00629-06
 Miami Dept. Building Control
 By: [Signature]
 Date: 9/12/13

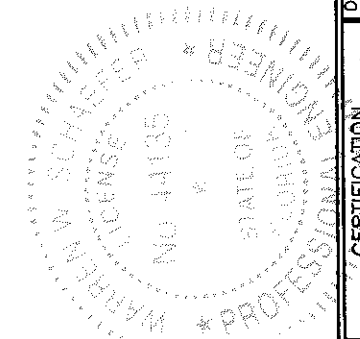
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 04/11/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: FLT-400 THERMAL ALUMINUM PANEL IMPACT OUT-SWING DOOR MANUFACTURER: CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 SEP 17 2013 CERTIFICATION: [Stamp] SEP 17 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 DRAWING NO. 1863 SHEET NO. 4 OF 11			



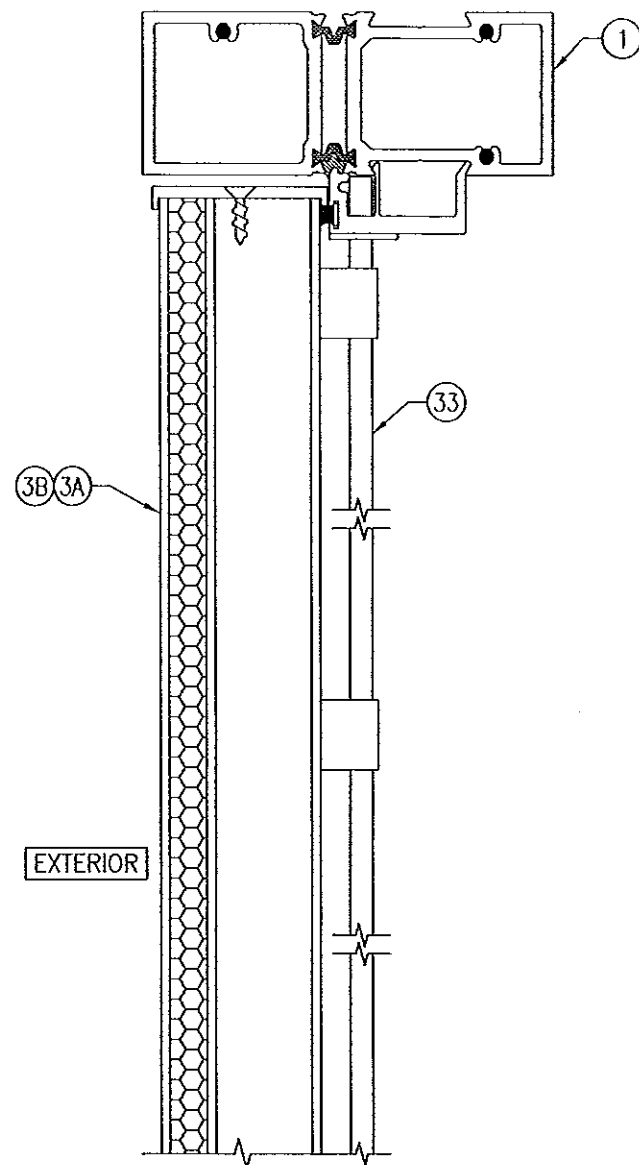
SEE "MULLION END INSTALLATION DETAIL" ON SHEET 2 FOR MULLION REQUIREMENTS



PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0428.01
Expiration Date 9/26/18
By: [Signature]
Miami Dade Product Control

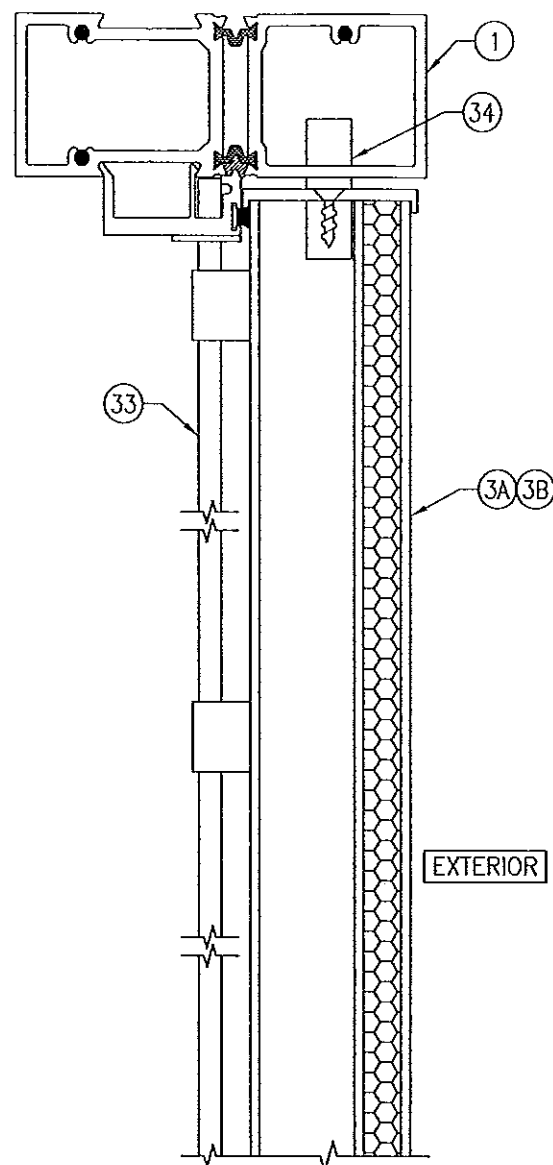


DRAWING TITLE		DRAWN BY: W.R.W.		CHECKED BY: W.W.S.	
FLT-400 THERMAL ALUMINUM PANEL IMPACT OUT-SWING DOOR		PLOT: 1=2		DATE: 04/11/13	
MANUFACTURER		NO.		REVISION DESCRIPTION	
CROSS ALUMINUM PRODUCTS, INC.					
1770 MAYFLOWER RD.					
NILES, MI 49120					
800-806-3667					
CONSULTANTS		DATE		BY	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)					
7480 150TH COURT NORTH					
PALM BEACH GARDENS, FL 33418					
PHONE: 561-744-3424					
CERTIFICATION		SEP 17 2013		P.E. NO. 44135	
DRAWING NO. 1863		REV.			
SHEET NO. 5 OF 11					



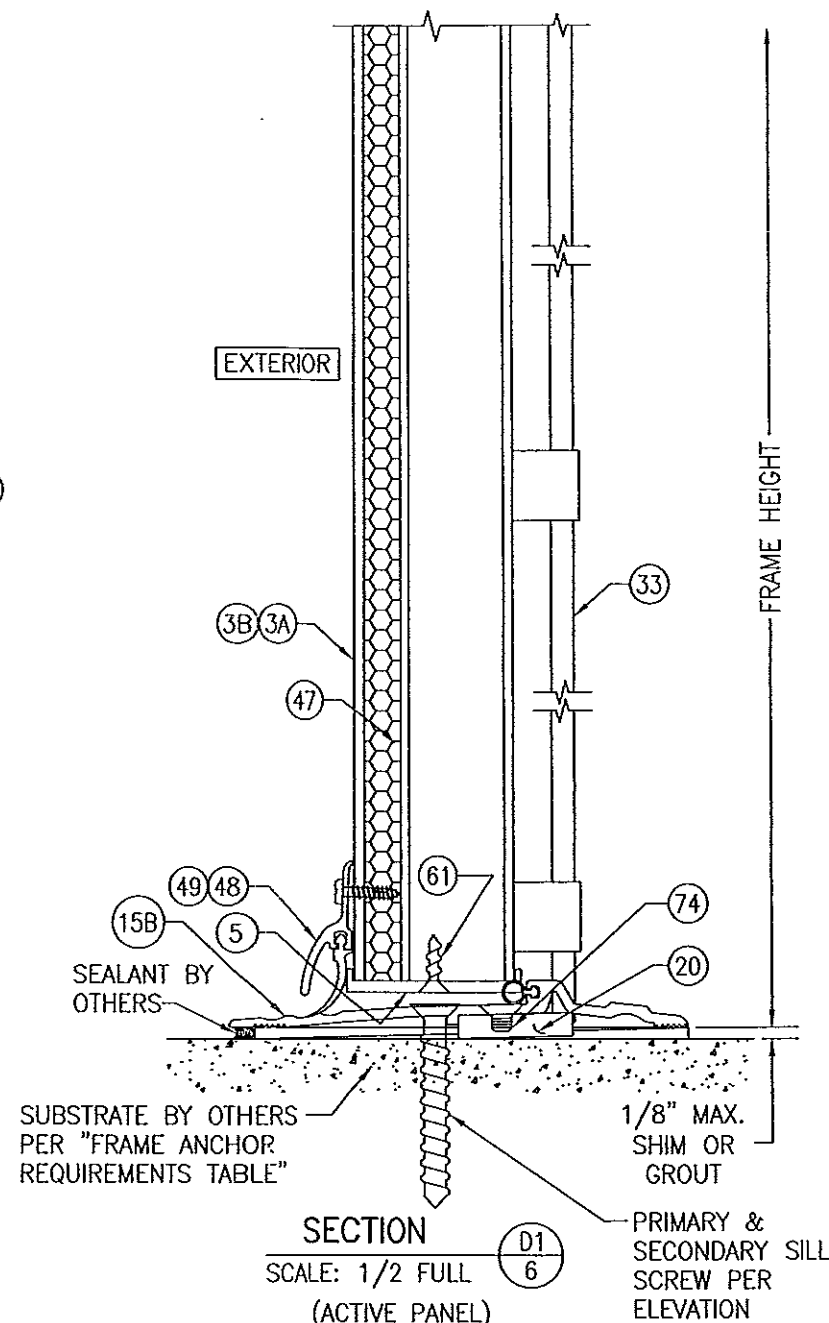
SECTION C1
SCALE: 1/2 FULL
(ACTIVE PANEL)

(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION A1/5)

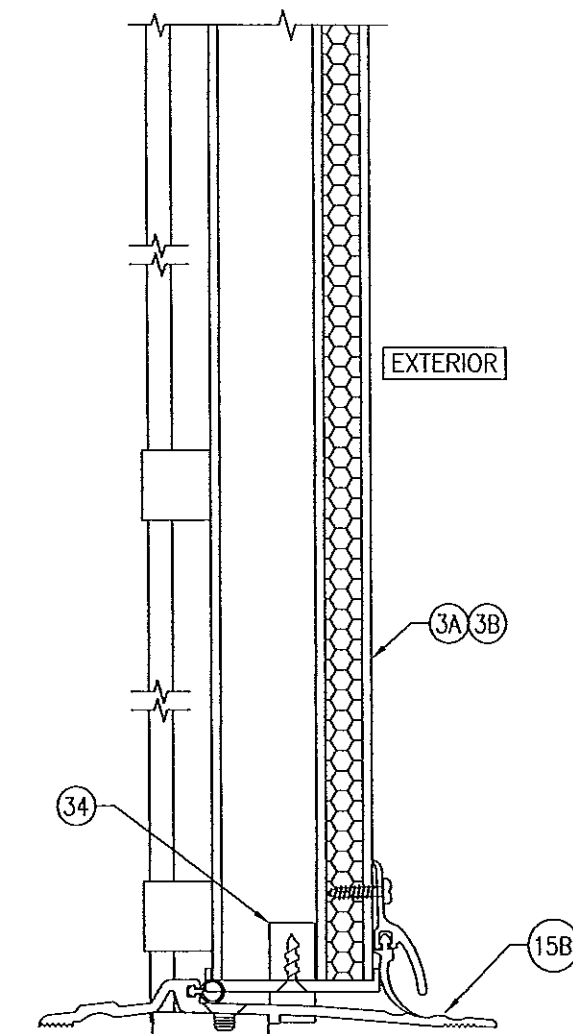


SECTION C2
SCALE: 1/2 FULL
(INACTIVE PANEL)

(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION A1/5)



SECTION D1
SCALE: 1/2 FULL
(ACTIVE PANEL)

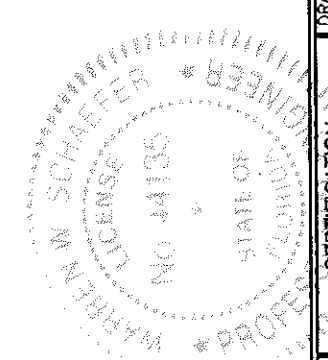


SECTION D2
SCALE: 1/2 FULL
(INACTIVE PANEL)

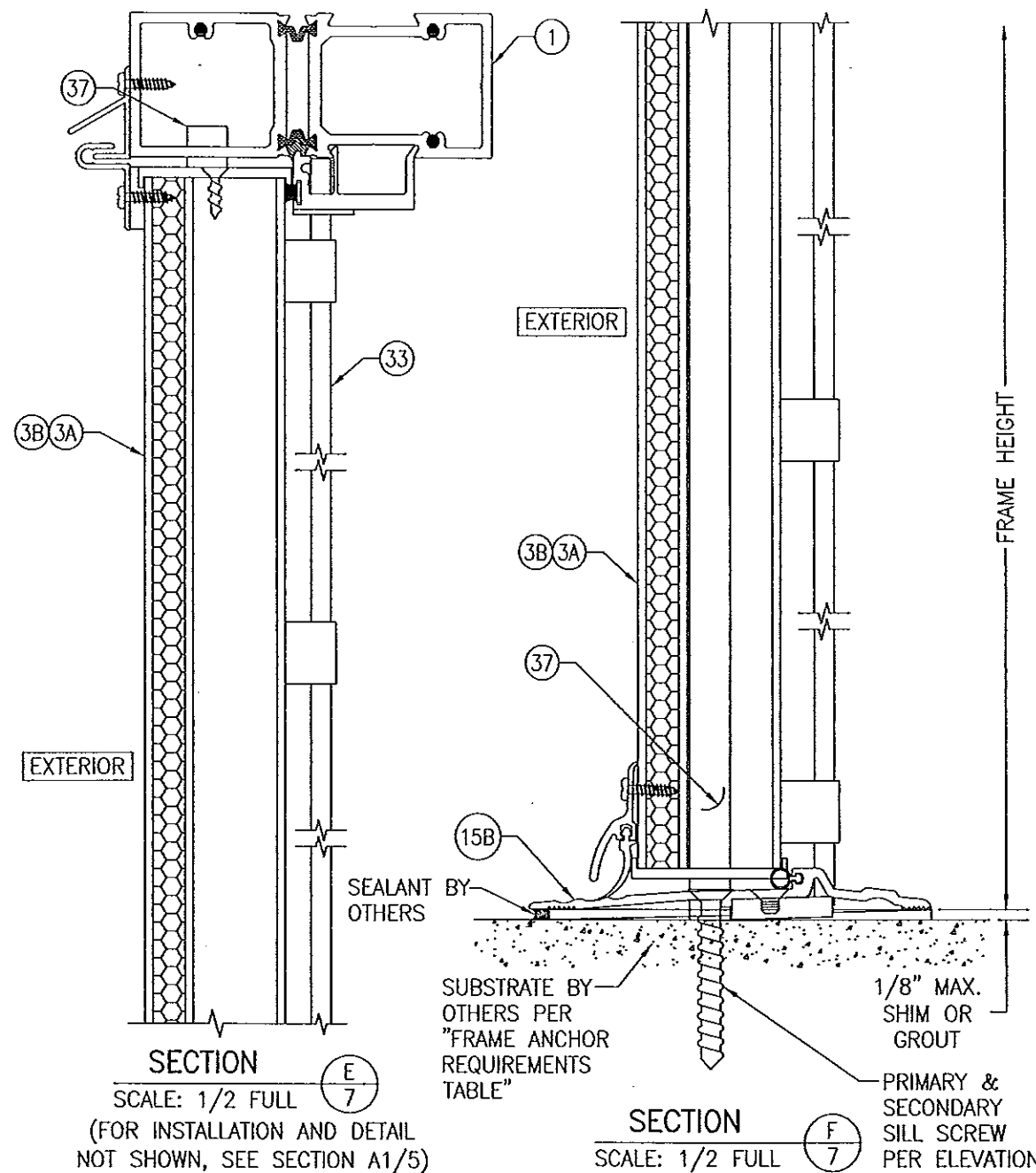
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION D1/6)

Approved as complying with the
Florida Building Code
Date 9/26/13
NOA 14-0428-02
Miami-Dade Product Control
By [Signature]

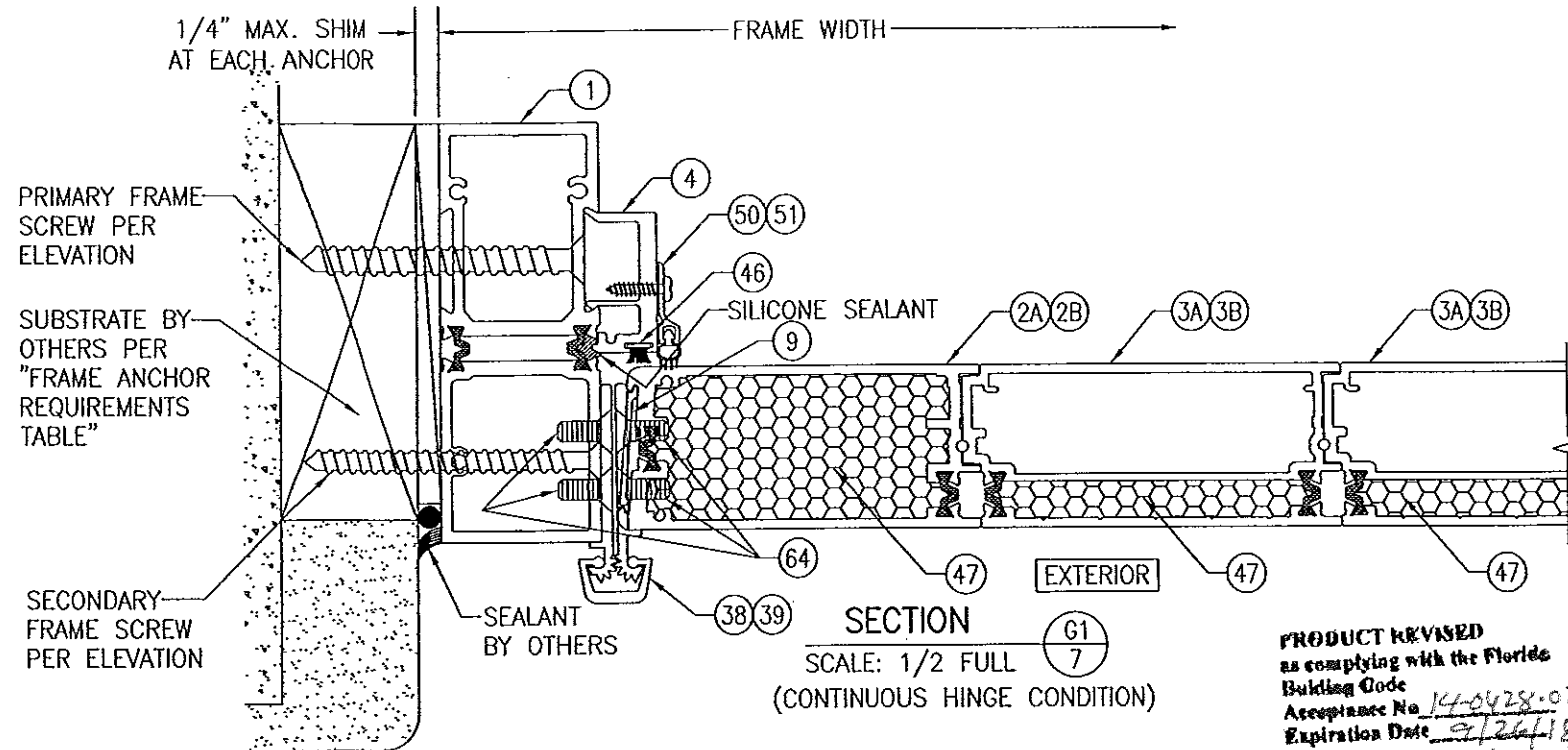
PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 14-0428-02
Expiration Date 9/26/18
By [Signature]
Miami-Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/11/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: FLT-400 THERMAL ALUMINUM PANEL IMPACT OUT-SWING DOOR			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		CROSS ALUMINUM PRODUCTS, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CERTIFICATION		SEP 17 2013	
DRAWING NO. 1863		REV.	
SHEET NO. 6		OF 11	

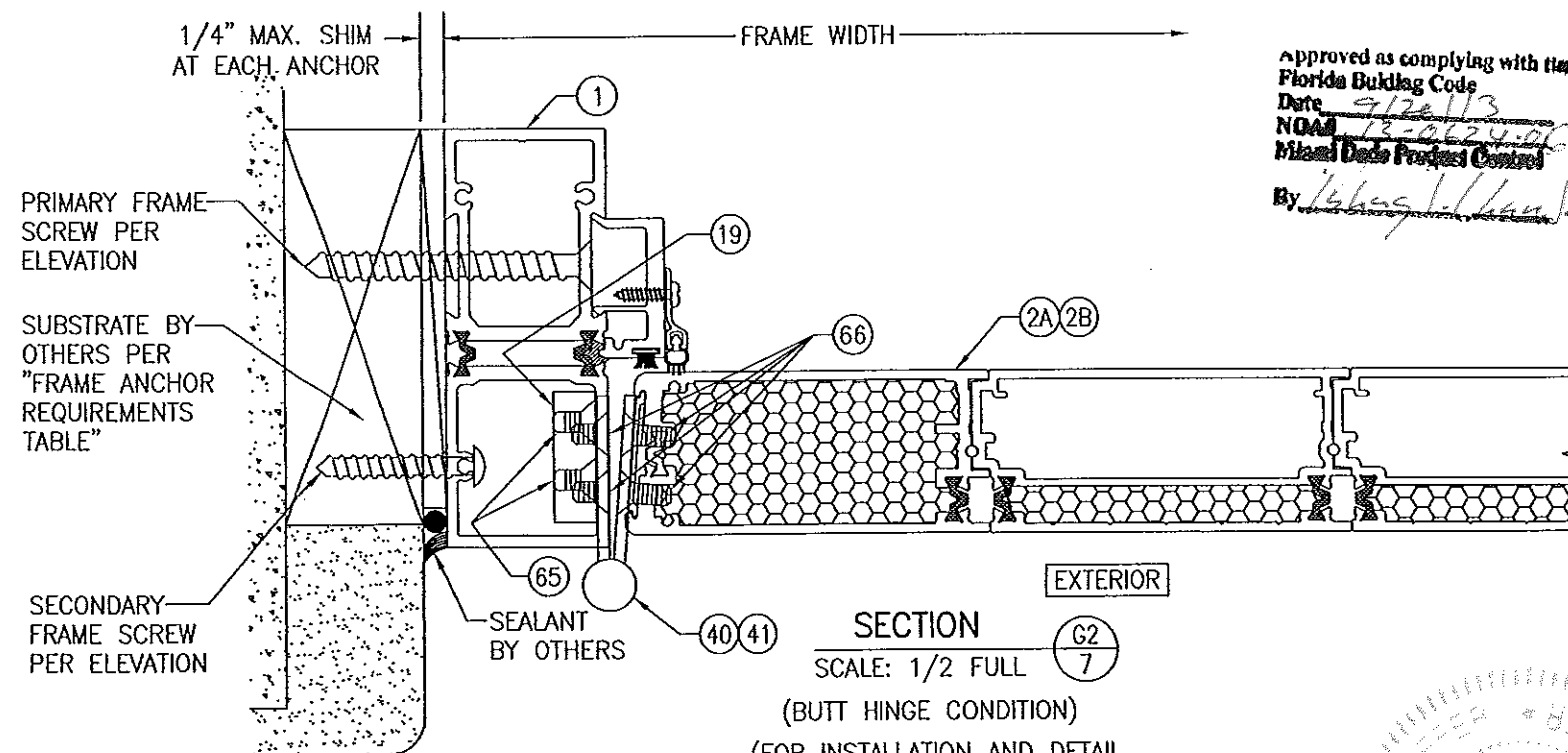


SECTION F
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE SECTION D1/6)

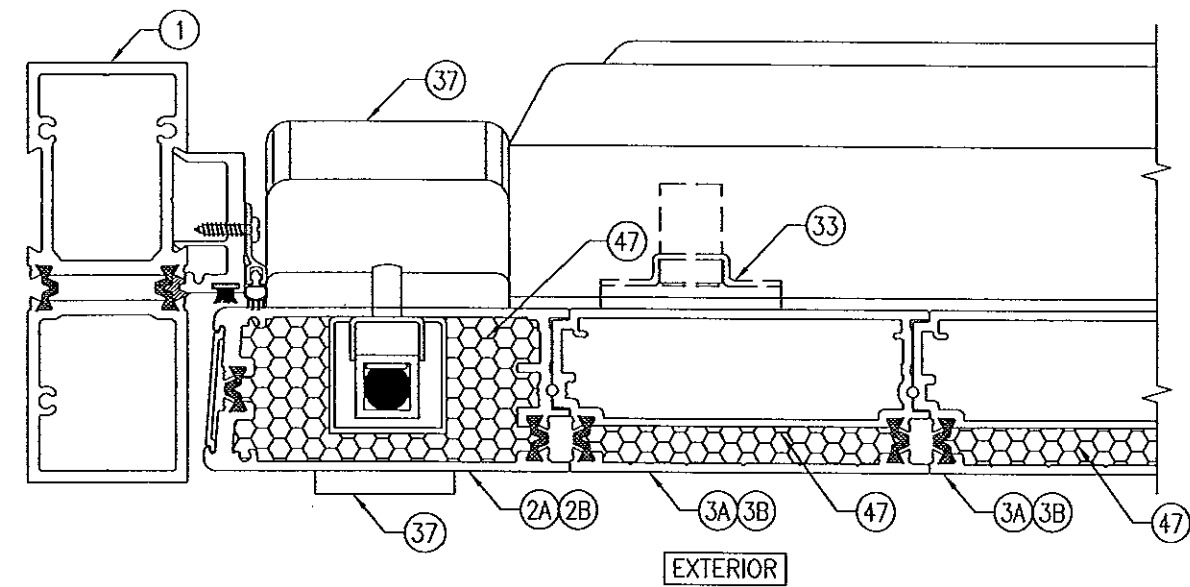



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0428-02
Expiration Date 9/24/18
By Shawn L. Chavis
Miami Dade Product Control

Approved as complying with the
Florida Building Code
Date 9/24/13
By Shawn L. Chavis
Miami Dade Product Control



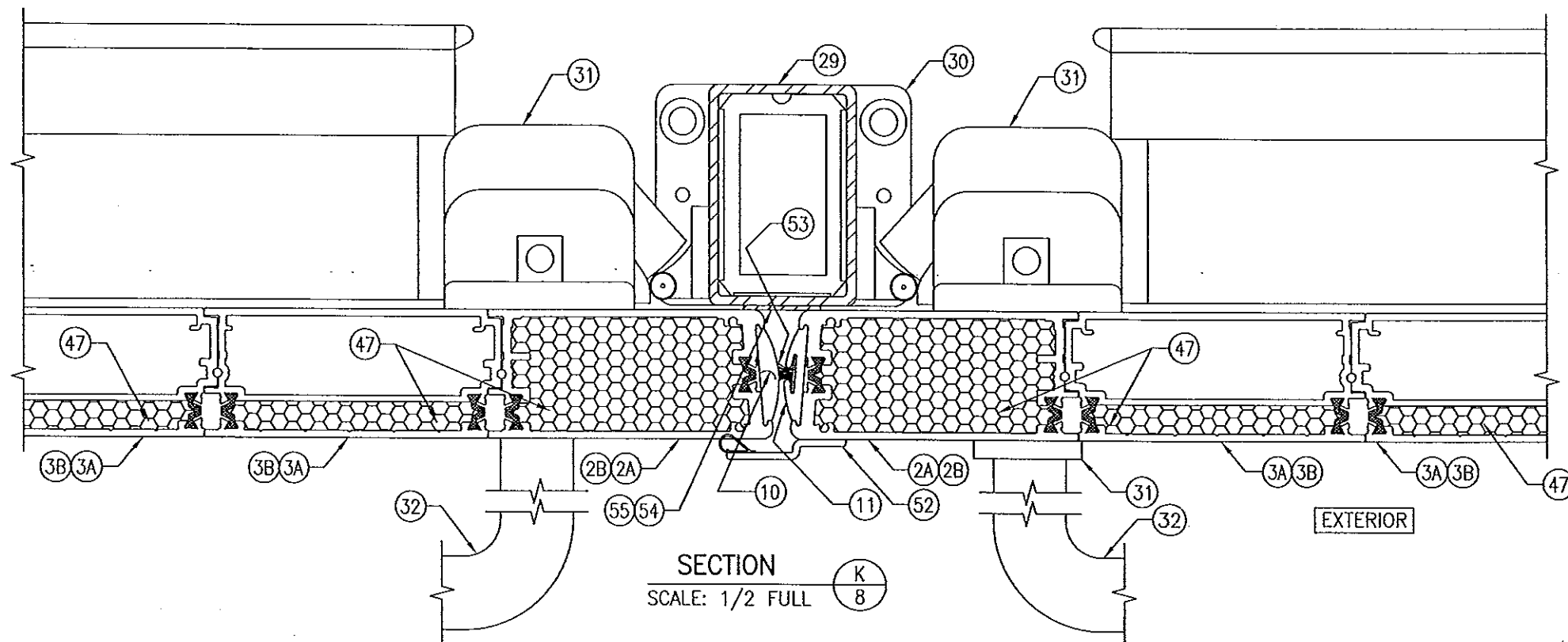
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/11/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: FLT-400 THERMAL ALUMINUM PANEL IMPACT OUT-SWING DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: CROSS ALUMINUM PRODUCTS, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CERTIFICATION: SEP 17 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1863 SHEET NO. 7 OF 11	

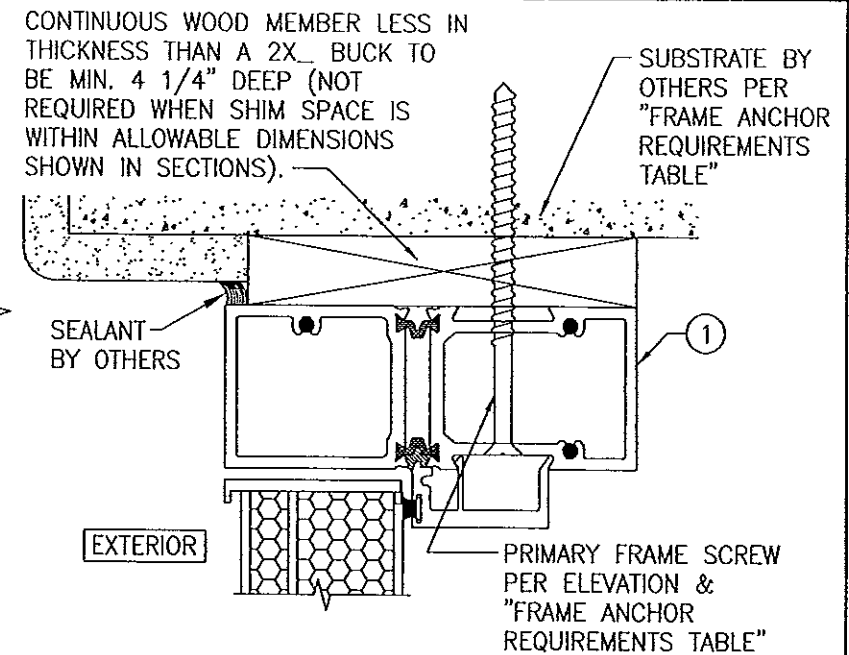
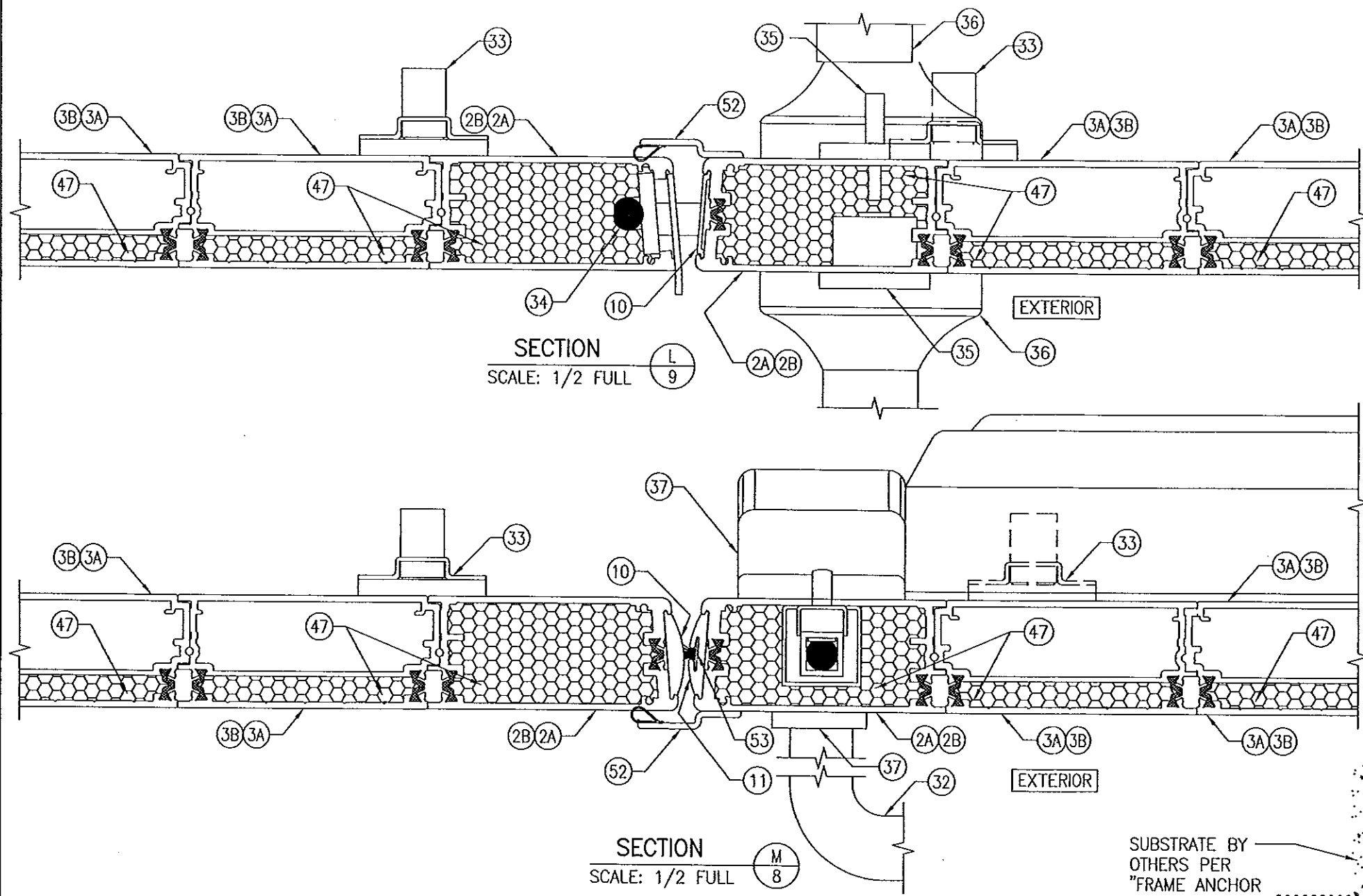


SECTION 
SCALE: 1/2 FULL
(FOR INSTALLATION AND DETAIL
NOT SHOWN, SEE SECTION H/8)

Approved as complying with the
Florida Building Code
Date 9/26/13
NOA# 13-0124.06
Miami-Dade Project Control
By Blag L. Gant

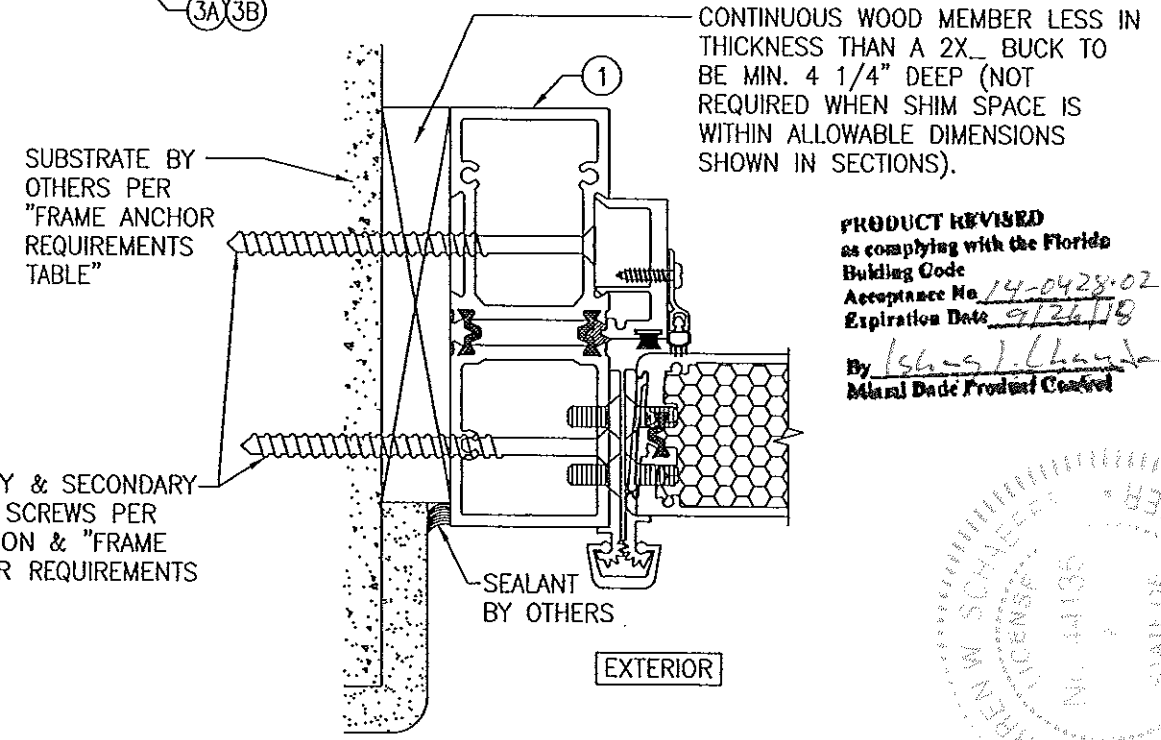
PRODUCT REVISED
as complying with the Florida
Bulking Code
Acceptance No 14-0428-02
Expiration Date 9/26/18
By Glenn L. Hagen
Regional Dedic Product Control

[illegible]



**OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER AT HEAD**
(FOR DETAIL NOT SHOWN, SEE OTHER HEAD SECTIONS)

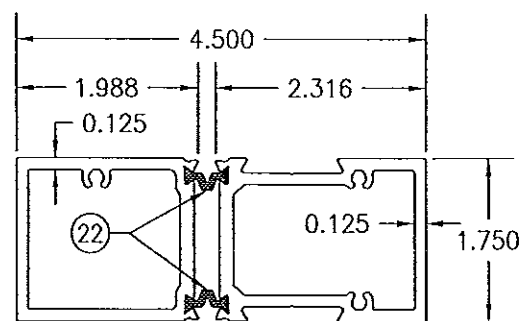
Approved as complying with the
Florida Building Code
Date 9/26/13
NOA# 13-262496
Miami Dade Product Control
By [Signature]



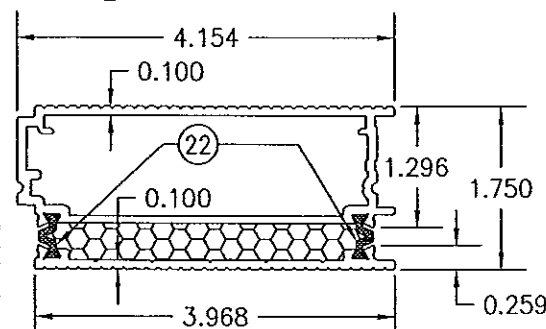
**OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER AT SIDES**
(FOR DETAIL NOT SHOWN, SEE OTHER SIDE SECTIONS)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0428-02
Expiration Date 9/26/18
By [Signature]
Miami Dade Product Control

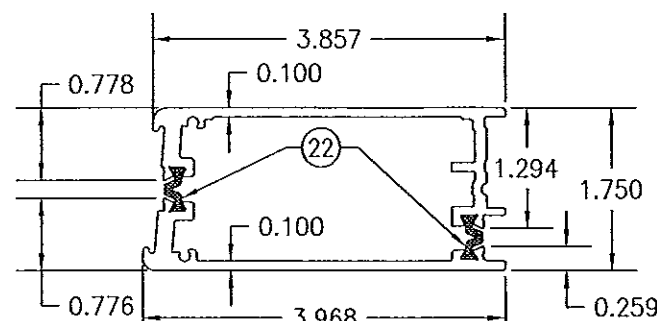
DRAWING TITLE		DRAWN BY: W.R.V.		CHECKED BY: W.W.S.	
PLT: 1-2		DATE: 04/11/13			
NO.	REVISION DESCRIPTION	DATE	BY		
1					
CONSULTANTS		MANUFACTURER			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		CROSS ALUMINUM PRODUCTS, INC.			
7480 150TH COURT NORTH		1770 MAYFLOWER RD.			
PALM BEACH GARDENS, FL 33418		NILES, MI 49120			
PHONE: 561-744-3424		800-806-3667			
CERTIFICATION		SEP 17 2013			
WARREN W. SCHAEFER, P.E.		P.E. NO. 44135			
DRAWING NO. 1863		REV.			
SHEET NO. 9		OF 11			



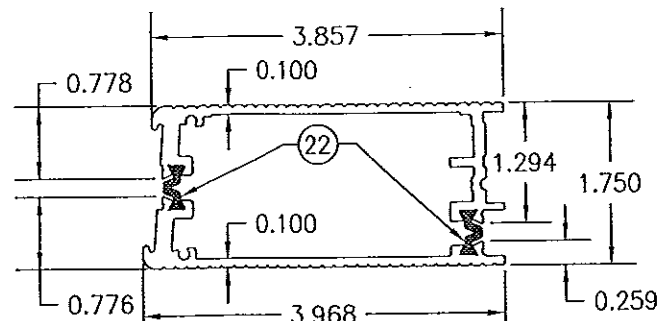
① HEAD & JAMB FRAME



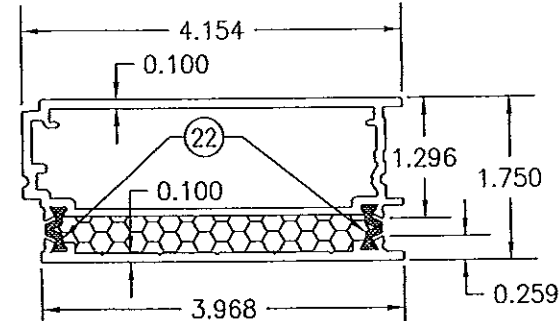
③B INTERMEDIATE VERTICAL PANEL SLATS (FLUTED FINISH)



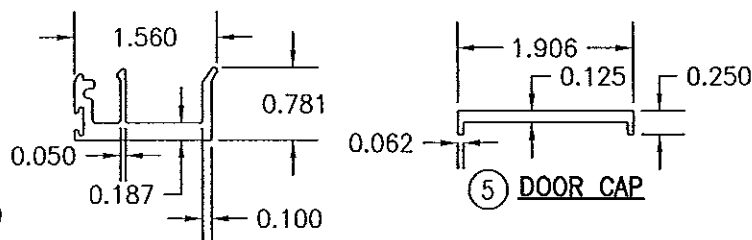
②A MEETING & HINGE VERTICAL PANEL SLATS (SMOOTH FINISH)



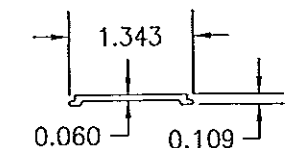
②B MEETING & HINGE VERTICAL PANEL SLATS (FLUTED FINISH)



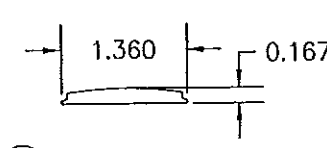
③A INTERMEDIATE VERTICAL PANEL SLATS (SMOOTH FINISH)



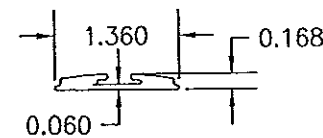
④ DOOR STOP



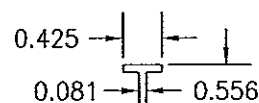
⑨ DOOR EDGE FILLER



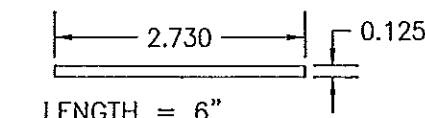
⑩ INACTIVE PANEL EDGE FILLER



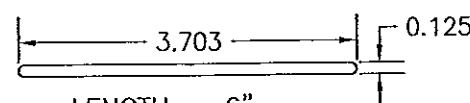
⑪ ACTIVE PANEL EDGE FILLER



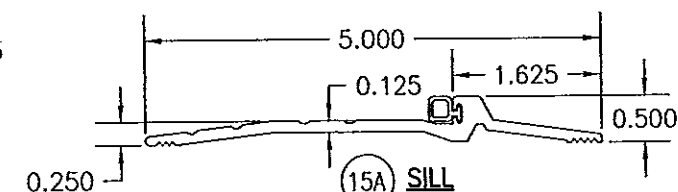
⑫ DOOR SPACER (ALLOWS PANEL MEMBERS TO REVERSE DIRECTION)



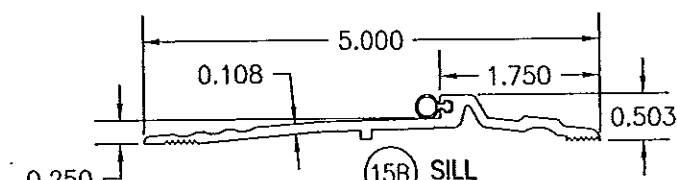
⑬ LOCK & HINGE VERTICAL PANEL SLAT REINFORCEMENT (1 REQ'D AT ALL HINGE SLATS; 2 REQ'D AT SURFACE LOCK BOLT LOCATIONS WITH LOCK OPTIONS 2 & 3)



⑭ INTERMEDIATE VERTICAL PANEL SLAT REINFORCEMENT



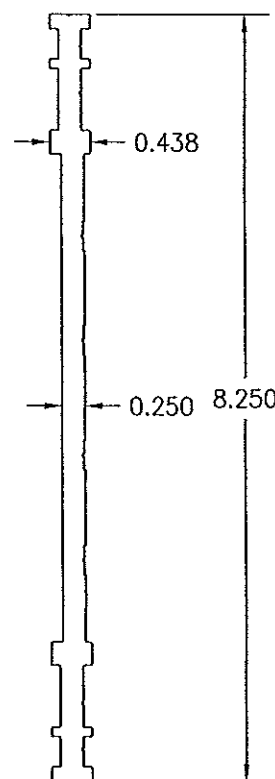
⑮A SILL



⑮B SILL

Approved as complying with the Florida Building Code
Date 9/26/13
NOAA 13-0624.06
Miami Code Product Control
By [Signature]

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0428.02
Expiration Date 9/26/18
By [Signature]



⑰ BUTT HINGE BACK-UP PLATE

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLT: 1=2	DATE: 04/11/13
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE FLT-400 THERMAL ALUMINUM PANEL IMPACT OUT-SWING DOOR	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667
CERTIFICATION SEP 17 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1863 SHEET NO. 10 OF 11

